

Appendix M

Potential Commercial-scale MRF Fines Processing Using Air Gravity Separation

Organic Yields from Pilot Testing

Pilot testing demonstrated that yields in the range of 40% to 60% of organic fraction from MRF Fines with less than 0.5% glass were achievable using a combination of product sizing and air/gravity separation. Product sizing of the -2" MRF Fines prior to application of almost any other available type of separation technology has been identified as required to achieve glass contamination in the recovered organic fraction of less than 1% glass by weight. Based on lab scale and pilot testing, SMaRT's -2" MRF Fines should be separated into at least two particle size classes in order to obtain practical levels of yield of organics with acceptable levels of glass contamination.

Possible Air Gravity Processing System

Based on the investigations to date, the suggested -2" MRF Fines processing system would be composed of an integrated particle size screening and air/gravity system. In order to achieve glass contamination less than 0.5% by weight, SMaRT's -2" MRF Fines would require separation into at least two particle size fractions, with each size fraction being processed in a set of air/gravity separators operating according to conditions specific to the respective particle size classification. In addition to the screening equipment, the commercial processing system would require several belt conveyors and, for completeness, magnetic separators to remove ferrous steel items. The yield of organics from the -2" MRF Fines based on the above described processing system is estimated to be in the range of 50%, wet weight basis. The actual yield of organics would depend primarily on glass concentration and moisture content of the -2" MRF Fines.